

Listing of the Claims:

1           1. (Currently Amended) A fluid quick connector comprising:  
2           an electrically conductive connector housing ~~configured to mate with~~  
3           ~~male~~ an endform having a bore extending from one end; and  
4           an electrically conductive contact member mounted in the housing and  
5           adapted for contacting the ~~male~~ endform to electrically connect the ~~male~~ endform and  
6           the quick connector housing, the contact member including:  
7                 a first portion ~~adapted to be mountable~~ mounted in [a] the quick  
8                 connector housing bore in contact with the quick connector housing; and  
9                 at least one arm means, extending from the first portion[,] and  
10                 ~~adapted to extend for passage~~ through an open end of a bore in the ~~male~~  
11                 endform in into contact with an inner surface of the ~~male~~ endform.

Claims 2 and 3.         (Cancelled)

1           4. (Currently Amended) The fluid quick connector of claim 1  
2           further comprising:  
3                 the means is an arm having a bent end extendable extending into the  
4                 male endform.

1           5. (Currently Amended) The fluid quick connector of claim 4  
2           wherein the arm and the bent end comprise:  
3                 a beam portion extending from the first portion of the contact member;  
4                 a back taper surface extending angularly from the beam portion; and  
5                 a tip end extending angularly from an edge at one end of the back taper  
6                 surface and defining a lead-in surface ~~adapted to be~~ engaged by a tip end of the  
7                 endform.

1                         6. (Original) The fluid quick connector of claim 5 wherein:  
2                         the back taper surface extends at an obtuse included angle with respect  
3                         to the beam; and  
4                         the tip end extends at an obtuse included angle from the back taper  
5                         surface.

1                      7. (Currently Amended) The fluid quick connector of claim 1  
2 wherein the first portion comprises:  
3                      a tubular body ~~mountable~~ mounted in the bore in the quick connector  
4 housing, the ~~arm~~ means extending from one end of the tubular body.

1                   9. (Original) The fluid quick connector of claim 7 wherein the  
2 tubular body further comprises:  
3                   another end oppositely formed from the one end of the body, a lead-in  
4 edge formed on the another end.

1                         10. (Currently Amended) The fluid quick connector of claim 1  
2 wherein the first portion of the contact member comprises:  
3                         an annular ring ~~mountable~~ mounted in the bore in the quick connector  
4 housing, the arm extending from the annular ring.

1                         11. (Currently Amended) The fluid quick connector of claim 10  
2 further comprising:  
3                         the means is an arm having a bent end ~~extensible~~ extending through an  
4 open end of a bore in the male endform.

1                   12. (Previously presented) The fluid quick connector of claim 10  
2 further comprising:

3                   at least one locating member extending angularly from the annular ring  
4 of the contact member, the at least one locating member engagable with an end of the  
5 male endform to center the annular ring relative to the male endform.

1                   13. (Original) The fluid quick connector of claim 10 wherein:  
2                   the annular ring is mountable in registry with a shoulder between two  
3 stepped bore portions of the through bore in the quick connector housing.

Claim 14. (Cancelled)

1                   15. (Currently Amended) A fluid quick connector comprising:  
2                   a connector housing ~~adapted to mate with~~;  
3                   an electrically conductive ~~male~~ endform ~~along a first axis~~;  
4                   the quick connector housing and the endform formed of an electrically  
5 conductive material; and

6                   [a] an electrical contact member having a first portion fixedly  
7 ~~mountable mounted~~ in a bore in the housing, and ~~an arm means~~ extending from the  
8 first portion ~~adapted to extend~~ through an open end of a bore in the ~~male~~ endform to  
9 dispose the arm in contact with ~~a~~ an inner surface of the ~~male~~ endform.

1                   16. (Currently Amended) An electrical contact for In an electrically  
2 conductive fluid quick connector having a connector housing ~~configured to mate~~  
3 mated with an electrically conductive male endform, the ~~electrical contact~~  
4 improvement comprising:

5                   an electrically conductive contact member ~~adapted to mount mounted~~  
6 in a quick connector housing to electrically connect a ~~male~~ the endform inserted into  
7 the housing to the quick connector housing, the contact member including:

8                   a first portion ~~adapted to be mountable~~ mounted in the quick  
9                   connector housing bore in contact with the quick connector housing; and  
10                  ~~an arm means~~ extending from the first portion ~~adapted for into~~  
11                  contact with the ~~male~~ endform inserted into the housing bore, ~~the arm adapted~~  
12                  ~~to be extendable~~ through an open end of the bore in the ~~male~~ endform into  
13                  contact with a an inner surface of the ~~male~~ endform.

Claims 17 and 18.     (Cancelled)

1                  19.     (Currently Amended) The ~~electrical contact improvement~~ of  
2                  claim 16 further comprising:  
3                  the means is an arm having a bent end ~~adapted to be extendable~~  
4                  extending into the male endform.

1                  20.     (Currently amended) The ~~electrical contact improvement~~ of  
2                  claim 19 wherein the arm and the bent end comprise:  
3                  a beam portion extending from the first portion of the contact member;  
4                  a back taper surface extending angularly from the beam portion; and  
5                  a tip end extending angularly from an edge at one end of the back taper  
6                  surface and defining a lead-in surface ~~adapted to be~~ engaged by a tip end of the  
7                  endform.

1                  21.     (Currently Amended) The ~~electrical contact improvement~~ of  
2                  claim 20 wherein the arm and the bent end comprise:  
3                  the back taper surface extends at an obtuse included angle with respect  
4                  to the beam; and  
5                  the tip end extends at an obtuse included angle from the back taper  
6                  surface.

1               22. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 16 wherein the first portion of the contact member comprises:  
3                a tubular body adapted to be mountable mounted in the bore in the  
4 quick connector housing, the arm extending from one end of the tubular body.

1               23. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 22 wherein:  
3                the tubular body is longitudinally split to form spaced edges allowing  
4 compression of the tubular body for press-fit mounting of the tubular body in the bore  
5 in the quick connector housing.

1               24. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 22 wherein the tubular body further comprises:  
3                another end oppositely formed from the one end of the body, a lead-in  
4 edge formed on the another end.

1               25. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 16 wherein the first portion of the contact member comprises:  
3                an annular ring ~~adapted to be~~ mountable in the bore in the quick  
4 connector housing, the arm extending from the annular ring.

1               26. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 25 further comprising:  
3                the means is an arm having a bent end ~~adapted to extend~~ extending  
4 through an open end of a bore in the male endform.

1               27. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 25 further comprising:  
3                at least one finger extending angularly from the annular ring of the  
4 contact member, the at least one finger ~~adapted to engage~~ engaging the housing bore.

1                   28. (Currently Amended) The ~~electrical contact improvement~~ of  
2 claim 25 wherein:

3                   the annular ring is ~~adapted to be~~ mounted in registry with a shoulder  
4 between two stepped bore portions of the through bore in the quick connector  
5 housing.

Claim 29. (Cancelled)

1                   30. (New) The fluid quick connector of claim 15 further  
2 comprising:

3                   the means is an arm having a bent end extending into the male  
4 endform.

1                   31. (New) The fluid quick connector of claim 30 wherein the arm  
2 and the bent end comprise:

3                   a beam portion extending from the first portion of the contact member;  
4                   a back taper surface extending angularly from the beam portion; and  
5                   a tip end extending angularly from an edge at one end of the back taper  
6                   surface and defining a lead-in surface engaged by a tip end of the endform.

1                   32. (New) The fluid quick connector of claim 31 wherein:  
2                   the back taper surface extends at an obtuse included angle with respect  
3 to the beam; and  
4                   the tip end extends at an obtuse included angle from the back taper  
5                   surface.

1                   33. (New) The fluid quick connector of claim 15 wherein the first  
2 portion comprises:

3                   a tubular body mounted in the bore in the quick connector housing, the  
4 means extending from one end of the tubular body.

1                   34. (New) The fluid quick connector of claim 33 wherein:  
2                   the tubular body is longitudinally split to form spaced edges allowing  
3                   compression of the tubular body for press-fit mounting of the tubular body in the bore  
4                   in the quick connector housing.

1                   35. (New) The fluid quick connector of claim 33 wherein the  
2                   tubular body further comprises:  
3                   another end oppositely formed from the one end of the body, a lead-in  
4                   edge formed on the another end.

1                   36. (New) The fluid quick connector of claim 15 wherein the first  
2                   portion of the contact member comprises:  
3                   an annular ring mounted in the bore in the quick connector housing, the  
4                   arm extending from the annular ring.

1                   37. (New) The fluid quick connector of claim 36 further  
2                   comprising:  
3                   the means is an arm having a bent end extending through an open end  
4                   of a bore in the male endform.

1                   38. (New) The fluid quick connector of claim 36 further  
2                   comprising:  
3                   at least one locating member extending angularly from the annular ring  
4                   of the contact member, the at least one locating member engagable with an end of the  
5                   male endform to center the annular ring relative to the male endform.